

Permutations Algorithms Solutions

Permutations

- Explain what is meant by "permutations" with regard to an iterator range
 - A permutation is an arrangement of the elements in the range
 - The permutations of an iterator range are the set of all possible arrangements of the elements in the range

next_permutation()

- Describe what the next_permutation function does
 - next_permutation() takes an iterator range
 - It reorders the elements to give the next permutation in ascending order
- Write a simple program to demonstrate its use

Prev_permutation()

- Describe what the prev_permutation function does
 - prev_permutation() takes an iterator range
 - It reorders the elements to give the previous permutation
- Write a simple program to demonstrate its use

is_permutation()

- Describe what the is_permutation function does
 - is_permutation() takes two iterator ranges
 - It returns true if both ranges contain the same elements, regardless of order
- Write a simple program to demonstrate its use